

IN THE CLAIMS:

1. (Currently Amended) A method of measuring luminance of an image display apparatus having ~~an adjacently disposed~~ a plurality of pixels for displaying red, blue and green ~~arranged in matrix~~, comprising the steps of:

~~illuminating the pixels in a time-sharing basis for each color, and
measuring luminance of the illuminated pixels for each illumination~~

a first step of causing only those ones of the plurality of pixels which display a first color among red, blue and green, arranged in a first direction in a predetermined area, to emit light in a first period, and causing other ones of the plurality of pixels which display colors different from the first color and are arranged in the first direction in the predetermined area, not to emit light, wherein the other ones of the plurality of pixels are adjacent to the ones of the plurality of pixels which display the first color;

a first detecting step of detecting each of emission statuses of the plurality of the pixels emitting light in said first step;

a second step of causing only those ones of the plurality of pixels which display a second color different from the first color among red, blue and green, arranged in the first direction in the predetermined area, to emit light in a second period different from the first period, and causing other ones of the plurality of pixels which display colors different from the second color and are arranged in the first direction in a predetermined area, not to emit light, wherein these other ones of the plurality of pixels are adjacent to the ones of the plurality of pixels which display the second color ; and

a second detecting step of detecting each of emission statuses of the plurality of the pixels emitting light in said second step.

2. - 4. (Canceled)

5. (Currently Amended) A method of manufacturing [[of]] an image display apparatus having ~~an adjacently disposed~~ a plurality of pixels for displaying red, blue and green ~~arranged in matrix~~, comprising the steps of:

~~illuminating the pixels in a time-sharing basis for each color and measuring luminance of the illuminated pixels for each illumination; and~~

~~adjusting luminance of each pixel based on the result of measurement in the measuring step~~

a first step of causing only those ones of the plurality of pixels which display a first color among red, blue and green, arranged in a first direction in a predetermined area, to emit light in a first period, and causing other ones of the plurality of pixels which display colors different from the first color and are arranged in the first direction in the predetermined area, not to emit light, wherein the other ones of the plurality of pixels are adjacent to the ones of the plurality of pixels which display the first color;

a first detecting step of detecting each of emission statuses of the plurality of the pixels emitting light in said first step;

a second step of causing only those ones of the plurality of pixels

which display a second color different from the first color among red, blue and green, arranged in the first direction in the predetermined area, to emit light in a second period different from the first period, and causing other ones of the plurality of pixels which display colors different from the second color and are arranged in the first direction in the predetermined area, not to emit light, wherein these other ones of the plurality of pixels are adjacent to the ones of the plurality of pixels which display the second color;

a second detecting step of detecting each of emission statuses of the plurality of the pixels emitting light in said second step; and

an adjustment step of adjusting characteristics of the pixels based on a result obtained in said first detecting step and said second detecting step.

6. (Canceled)

7. (Cancelled)

8. (Canceled)

9. (New) A method according to claim 1, wherein said first detecting step and said second detecting step are executed using a measuring apparatus for imaging emission statuses of pixels to detect a two dimensional image.

10. (New) A method of measuring luminance of an image display apparatus having a plurality of pixels, comprising:

a first step of causing a plurality of the pixels that are not adjacent each other in a plurality of the pixels arranged in a first direction to emit light in a first period, and causing a plurality of the pixels that are adjacent to the plurality of the pixels emitting light in the first period in the first direction not to emit light;

a first detecting step of detecting each of emission statuses of the plurality of the pixels emitting light in said first step;

a second step of causing a plurality of the pixels that do not emit light in said first step in the plurality of the pixels arranged in the first direction to emit light; and

a second detecting step of detecting each of emission statuses of the plurality of the pixels emitting light in said second step.

11. (New) A method according to claim 10, wherein said second step includes causing a plurality of the pixels that are not adjacent to each other in a plurality of the pixels not emitting light in said first step, to emit light.

12. (New) A method according to claim 10, wherein said first detecting step and said second detecting step are executed using at least one measuring apparatus for imaging emission statuses of a plurality of the pixels, to detect a two dimensional image.

13. (New) A method according to claim 12, wherein said first step, said first detecting step, said second step and said second detecting step are executed by matching a part of a display area of said image display apparatus and a measurement area of said at least one measuring apparatus, and then said first step, said first detecting step, said second step and said second detecting step are executed by matching another part of the display area of said image display apparatus and the measurement area of said at least one measuring apparatus.

14. (New) A method according to claim 12, wherein the at least one measuring apparatus includes a plurality of measuring apparatuses disposed on the image display apparatus, and luminances of the pixels are simultaneously measured by the measuring apparatuses.

15. (New) A method of manufacturing an image display apparatus having a plurality of pixels, comprising:

a first step of causing a plurality of the pixels that are not adjacent each other in a plurality of the pixels arranged in a first direction to emit light in a first period, and causing a plurality of the pixels that are adjacent to the plurality of the pixels emitting light in the first period in the first direction not to emit light;

a first detecting step of detecting each of emission statuses of the plurality of the pixels emitting light in said first step;

a second step of causing a plurality of the pixels that do not emit light in said first step in the plurality of the pixels arranged in the first direction to emit light;

a second detecting step of detecting each of emission statuses of the plurality of the pixels emitting light in said second step; and

an adjustment step of adjusting characteristics of the pixels based on a result obtained in said first detecting step and said second detecting step.

16. (New) A method of manufacturing an image display apparatus having a plurality of electron-emitting devices and a fluorescent member emitting light by being irradiated by electrons emitted from the electron-emitting devices, comprising:

a first step of causing a plurality of the electron-emitting devices corresponding to a plurality of the fluorescent members emitting light by a first color among red, blue and green in a plurality of the fluorescent members arranged in a first direction in a predetermined area to emit electrons in a first period, and causing a plurality of the electron-emitting devices corresponding to a plurality of the fluorescent members emitting light by colors different from the first color in the plurality of the fluorescent members arranged in the first direction in the predetermined area not to emit electrons;

a first detecting step of detecting each of emission statuses of the plurality of the fluorescent members corresponding to the plurality of the electron-emitting devices emitting electrons in said first step;

a second step of causing a plurality of the electron-emitting devices corresponding to a plurality of the fluorescent members emitting light by a second color different from the first color in the plurality of the fluorescent members arranged in the first direction in the predetermined area to emit electrons in a second period different from the first period, and causing a plurality of the electron-emitting devices corresponding to a plurality of the fluorescent members emitting light by colors different from the first color in the plurality of the fluorescent members arranged in the first direction in the predetermined area not to emit electrons;

a second detecting step of detecting each of emission statuses of the plurality of the fluorescent members corresponding to the plurality of the electron-emitting devices emitting electrons in said second step; and

an adjustment step of adjusting characteristics of the electron-emitting devices based on a result obtained in said first detecting step and said second detecting step.

17. (New) A method of manufacturing an image display apparatus having a plurality of electron-emitting devices and fluorescent member emitting light by being irradiated by electrons emitted from the electron-emitting devices, comprising:

a first step of causing a plurality of the electron-emitting devices corresponding to a plurality of the fluorescent members that are not adjacent each other in a plurality of the fluorescent members arranged in a first direction to emit electrons in a first

period, and causing a plurality of the electron-emitting devices corresponding to a plurality of the fluorescent members that are adjacent to the plurality of the fluorescent members corresponding to the plurality of the electron-emitting devices emitting electrons in the first direction not to emit electrons;

a first detecting step of detecting each of emission statuses of the plurality of the fluorescent members corresponding to the plurality of the electron-emitting devices emitting electrons in said first step;

a second step of causing a plurality of the electron-emitting devices corresponding to a plurality of the fluorescent members different from the plurality of the fluorescent members, in the plurality of the fluorescent members arranged in the first direction, corresponding to the plurality of the electron-emitting devices emitting electrons in said first step to emit electrons;

a second detecting step of detecting each of emission statuses of the plurality of the fluorescent members corresponding to the plurality of the electron-emitting devices emitting electrons in said second step; and

an adjustment step of adjusting characteristics of the electron-emitting devices based on a result obtained in said first detecting step and said second detecting step.